

# PATENT SPECIFICATION

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## DRAWINGS ATTACHED

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## (54) AN IMPROVED EYE MAKE-UP TRAY COMPACT

(71) We, ILLINGWORTHS (PLASTICS) LIMITED, of Sutton-in-Ashfield, Nottinghamshire, a British Company, do hereby declare the invention for which we pray that a Patent may be granted to us and the method by which it is to be performed to be particularly described in and by the following statement:—

This invention relates to an improved eye make-up tray compact and an object of the invention is to provide such a compact of improved construction.

The invention provides an eye make-up compact comprising a plurality of trays and a lid pivotally interconnected for pivotal displacements relative to each other about the axis of a common pivot pin disposed normal to the base of each tray and lid, resilient means being associated with the common pivot pin to provide constant pressure between the trays and the lid. Preferably the pivot pin retains each tray and lid between spaced projections and the resilient means associated with said pivot pin is in the form of a washer.

The pivot pin may be provided with an enlarged head against which the washer rests, the opposed end of the pin being provided with an enlarged tail key part adapted to engage an abutment on the tray or lid opposite said head, keyway slots being provided in pivot holes of each tray and lid to permit passage therethrough of the enlarged tail key part of the pivot pin. Preferably said abutment is provided by the surface of a wall of a tray or the lid in which said pivot hole and keyway slots are formed, the surface further from the head of the pivot pin providing the abutment.

Preferably the pivot pin is provided with opposed tail key parts and said abutment surface is ramped from each of the two keyway slots up to two shallow recesses disposed between the keyways to receive and retain said opposed tail key parts of the pivot pin.

Conveniently interconnections between each tray and the lid include bush and recess formations concentric to the pivot pin.

The bases of the trays and lid are rebated to be a snap fit in the mouth of the next adjacent tray.

The lid may be a shallow tray accommodating a mirror.

Preferably all the trays and the lid have a substantially egg shaped contour.

The invention is illustrated merely by way of example in drawings accompanying the Provisional Specification in which:—

Figure 1 is a general perspective view of an eye make-up compact according to the invention.

Figure 2 is a cross sectional view of the compact.

Figure 3 is an enlarged cross sectional view of a pivoting part of the compact.

Referring to Figure 1, the eye make-up compact comprises a bottom tray 1, a middle tray 2, an upper tray 3, and a lid 4, all pivotally connected together.

Conveniently the lid is of shallow tray form to accommodate a mirror 21, and all the trays, the lid, and the mirror, conveniently have substantially identical egg shaped contours.

The parts except the mirror are conveniently plastics mouldings such as to provide for each tray a circular compartment 1a, 2a, 3a, the three compartments being for containing for example eye liner, eye shadow, and eye light in cake form.

At the apexes of the trays and lid, the mouldings provide for a pivot hole to receive a pivot pin 5, Figures 2, 3, which has a head 5a at its lower end and on its upper tail end a pair of flanking key parts such as the key part 5b.

The pivot holes in the parts conveniently have flanking key ways 6, 7 and the adjacent mouldings about the pivot hole include underside bushes 8, 9, 10 to fit in upper recesses 11, 12, 13 respectively.

The undersides of the bases of the trays are conveniently rebated as at 14, 15, 16 to have a releasable snap fit in the adjacent mouths of the trays.

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The lid moulding bush 10 has an enlarged upper base part 10a to allow for turning of the key parts such as 5b of the pivot pin, and abutment parts 17, 18, Figure 3 have upper ramp faces 17a, 18a, leading to shallow recesses such as shown at 19.

The pivot head is conveniently of Allen screw type and a resilient washer 20 is disposed behind the pivot pin head 5a.

- 10 Desired parts of the keyways and pivot hole may be tapered for good fitting.

The compact is assembled by first fitting the trays and lid together; then the pivot pin is inserted in the pivot hole with the resilient washer behind the head; next the pivot pin is pressed against the resistance of the resilient washer, so that this is partly compressed, until the key parts, such as 5b, rise about the abutment parts 17, 18, so that the key parts can then be turned by turning the pivot pin. During this turning, the key parts ride on the ramp faces 17a, 18a and eventually snap into the recesses such as 19, the trays and lid being thereupon urged by the resilient washer 20 to have constant pressure between them.

The mirror can be secured in the lid tray by adhesive.

#### WHAT WE CLAIM IS:—

- 30 1. An eye make-up compact comprising a plurality of trays and a lid pivotally interconnected for pivotal displacements relative to each other about the axis of a common pivot pin disposed normal to the base of each tray and lid, resilient means being associated with the common pivot pin to provide constant pressure between the trays and the lid.

- 35 2. A compact as claimed in claim 1 wherein the pivot pin retains each tray and lid between spaced projections and the resilient means associated with said pivot pin is in the form of a washer.

- 40 3. A compact as claimed in claim 2 where-

in the pivot pin is provided with an enlarged head against which the washer rests, the opposed end of the pin being provided with an enlarged tail key part adapted to engage an abutment on the tray or lid opposite said head, keyway slots being provided in pivot holes of each tray and lid to permit passage therethrough of the enlarged tail key part of the pivot pin.

- 45 4. A compact as claimed in claim 3 wherein said abutment is provided by the surface of a wall of a tray or the lid in which said pivot hole and keyway slots are formed, the surface further from the head of the pivot pin providing the abutment.

- 50 5. A compact as claimed in claim 4, wherein the pivot pin is provided with opposed tail key parts and said abutment surface is ramped from each of the two keyway slots up to shallow recesses disposed between the keyways to receive and retain said opposed tail parts of the pivot pin.

- 60 6. A compact according to any of the preceding claims wherein interconnections between each tray and the lid include bush and recess formations concentric to the pivot pin.

- 70 7. A compact according to any of the preceding claims wherein the bases of each tray and lid are rebated to be a snap fit in the mouth of the next adjacent tray.

8. A compact according to any of the preceding claims wherein the lid is a shallow tray accommodating a mirror.

9. A compact according to any of the preceding claims wherein all the trays and the lid have a substantially egg shaped contour.

- 80 10. An eye make-up compact substantially as herein described with reference to the drawings accompanying the Provisional Specification.

B. D. FREEMAN,

Chartered Patent Agent.

For and on behalf of the Applicants.

1 SHEET

This drawing is a reproduction of  
the Original on a reduced scale

